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PATENT  
ATTY. DOCKET NO. ETK/226

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Courtney et al. Art Unit: 2856  
Serial No. : 09/704,102 Examiner: J. Saint Surin  
Filed : November 1, 2000  
For : DATA COLLECTOR INSTRUMENT WITH INTEGRAL SPEED  
SENSOR

Assistant Commissioner of Patents  
Washington, DC 20231

RESPONSE TO OFFICE ACTION

In response to the Examiner's Office Action dated March  
12, 2003, please amend claims 1 and <sup>13</sup>16 as follows:

Clean Version of Amendments

FAX RECEIVED

1. A data collector, comprising
- a housing,
- a vibration signal input on said housing,
- an analog to digital converter within said housing  
connected to said vibration signal input, converting a vibration  
signal received at said vibration signal input to a digitized  
vibration signal,
- an optical system within said housing, said optical  
system receiving light from outside said housing,
- a receiver circuit converting said received light to a  
digital signal, and
- a digital signal processing circuit connected to said  
analog to digital converter and said receiver circuit, and

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on: July 14, 2003

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p1  
receiving, storing or processing said digitized vibration signal and said digital signal converted from said received light, in real time, for the purpose of predictive maintenance,

whereby the data collector is an integrated device with analog and digital signal processing and an optical system.

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p2  
13. A method of collecting data for the purpose of predictive maintenance using a data collector, comprising receiving a vibration signal into a housing of said data collector, and converting said a vibration signal to a digitized vibration signal withing said housing, receiving light from outside said housing into said housing, and converting said received light to a digital signal, and simultaneously receiving, storing or processing said digitized vibration signal and said digital signal converted from said received light, whereby data is collected using an integrated device with analog and digital signal processing and an optical system.

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#### Remarks

All claims stand rejected as obvious over Piety et al (U.S. Patent 6,078,874) in view of Van Voorhis (U.S. Patent 5,059,901). Applicant submits that the claims are patentable over these references.

Applicant thanks the Examiner for participating in a telephone interview regarding the application on July 14, 2003.